

FYI-OTS-1278-0017 S

COPY

SCOTTS
THE LAWN PEOPLE

UNIVERSITY

John P. Kennedy
Vice President &
General Counsel

CONTAINS A/C/B

#00007

RECEIVED

DEC 08 1978

CA

PAGE 0002

December 5, 1978

Mr. Charles M. Auer
Chemist
Environmental Protection Agency
Office of Toxic Substances (TS-792)
4th and M Street, S.W. (Waterside Mall)
Washington, D. C. 20460

R. Hays Bell, Ph.D
Director
Technical Support Directorate
N 3605
USDOL/OSHA
200 Constitution Avenue
Washington, D. C. 20001

RECEIVED
8/21/81

TOB/CH/B

Gentlemen:

To confirm the oral report given on November 29 to your agencies, some information relating to one of our chemical fertilizer Plants has come to the attention of Scott which may or may not be reportable under the various statutes administered by your respective agencies. We have resolved any doubt on this question by this letter in an effort to fully advise you and seek your cooperation in dealing with the matter.

Dr. John Prior, of Ohio State University, who was retained through our Company Physician to interpret X-rays and provide expertise in his specialty of pulmonary disease, advised that in his practice he had encountered three instances of bloody pleural effusion of the lungs. Dr. Prior also advised that this represented an unusually high incidence of such a finding. All three patients had been employed by Scott either currently or in the past for periods ranging from four to twelve years.

O M Scott & Sons, A Subsidiary of ITT - Marysville, Ohio 43040, (513) 644-0011

BEST COPY AVAILABLE
ENTIRE DOCUMENT

Our Company Physician followed up on these cases and it was subsequently learned that in all three of the individuals lung tissue biopsies had been performed. Neither of the biopsies revealed tumor cells or asbestos bodies; however, chronic inflammatory changes and pleural fibrosis were detected. The clinical history of these individuals virtually rules out mesothelioma as a possibility and makes the presence of any other malignancy unlikely. At the time of Dr. Prior's report, Scott had not encountered any findings of this type in our medical program on Plant employees. However, within the last two weeks, another case of bloody pleural effusion was found from the X-rays of a current employee who has worked in Scott's Plants for approximately twenty years. Clinical study is currently underway.

A review of the published literature on bloody pleural effusions has not located any report of a response of this type associated with the materials found in Scott Plants or other chemicals. Nor were any published reports found in which asbestos exposures were associated with this type of response. This point is emphasized in particular because pleural reactions are apparently a common finding with asbestos exposure and the Scott Plant where these individuals were employed does use vermiculite, which has been found to contain low levels of fibrous tremolite (a form of asbestos).

By way of background The O. M. Scott and Sons Company is a manufacturer of lawn care products which are produced in our Chemical Plants in Marysville, Ohio. Since its inception over 20 years ago the Trionized Process at the Scott Chemical Plant has relied upon vermiculite as the inert carrier on which the fertilizer and, in the case of combination products, fertilizer plus pesticide chemicals would be applied to form our finished products. Almost all of our retail fertilizers and fertilizer-pesticide combination products are produced from this Process. Raw vermiculite ore is mined and classified in Montana and South Africa, and shipped to Marysville. In the Trionized Plant the ore is then expanded with heat so that its layered structure accords out creating a greater surface for the fertilizer material to be applied to.

Scott has advised its affected employees of the presence of asbestos in the Plant and maintained a regular program of air sampling, employee physical examinations, Plant clean-up and various equipment/facility changes to assure compliance with OSHA standards. In addition, Scott has secured analysis of its final products by independent laboratories, which uniformly indicate that no fibers can be found in the final product and that the use of such products present no fiber exposure. Scott has also shifted its purchase pattern of vermiculite so that a significant share of the vermiculite used is from sources with either no fibers or significantly lower levels of fibers.

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At this stage considerable question remains with respect to the cause, the meaning and the effects of these findings of pleural effusion. We have selected Dr. W. Clark Cooper of Berkeley, California, as an independent source of medical expertise.

We will keep you advised as our investigation of this matter proceeds. We would appreciate any information your agencies could provide on similar situations coming to your attention. We would also ask to be advised of any further reporting or other actions necessary on our part to secure compliance with the statutes administered by your respective agencies. Finally, we would ask that agency contacts be coordinated so that duplication of reporting can be minimized.

Yours very truly,

John P. Kennedy
John P. Kennedy
Vice President &
General Counsel

JPK:sh

Enclosures

However, as a result of the employee physical examinations instituted, the chest X-ray films of one employee were interpreted in 1976 as being compatible with asbestosis. Another employee was suspected of having an X-ray exhibiting early evidence of asbestosis, but subsequent X-rays have ruled this finding out. Neither of these employees were experiencing any symptoms of asbestosis or any disability; but, both were advised of this finding and transferred to other jobs out of the Trionized Process Plant. Scott advised all employees affected of the findings and tried to explain the risks involved. Examinations performed since have not revealed any additional employees to have evidence of asbestosis.

We have no reason to believe our current Plant situation presents any risk of asbestos-related problems since it is in compliance with OSHA asbestos standards. Based upon the low levels of fibers reported in our Plant at this time, the physicians involved have advised us that these findings do not indicate a current asbestos hazard to our workers, if in fact the effusions are related to the occupational exposures at Scott at all.

In summary, the situation presented is a perplexing problem. There is no medical evidence or literature indicating these four cases are due to occupational exposures in the Scott Plant. Yet, the fact remains a cluster of four cases of this type would not be expected to be found in a much larger population than Scott's 500-600 workforce. Adding to this uncertainty is the fact that this condition has apparently arisen several years after plant exposure, but not within the expected timing of asbestos-like problems.

Based upon the questions asked at the meeting held on November 29, 1978, with representatives of EPA and OSHA to report this situation and the data requested by the three representatives of OSHA who visited our Chemical Plant the mornings of November 29 and 30 on this issue, the following data is enclosed with each copy of this letter:

1. List of Current Chemicals
2. Results of Air Sampling in Chemical Plant
(1/1/76 to Present)
3. Notices to Scott Employees

Dr. Prior's report on the details of the clinical history of the four individuals will be ready within two weeks and a copy will be forwarded as soon as we receive it from Dr. Prior. Additional data will also be forwarded as completed on prior chemicals and other topics discussed at the meeting on November 29.

ASBESTOS FIBER SAMPLING TRIONIZED EXPANDER AREA ①

Date	8 Hr. Time Wt. Aver. Exposure	No. Of Samples Taken For Aver. Exp.	Maximum Ceiling Concen- tration	Entire ③ Expander Area Sample	Area Samples, By Floor ⑤						
					Base- ment	1st Fl.	2nd Fl.	3rd Fl.	4th Fl.	5th Fl.	6th Fl.
1-30-76	1.04	7	3.08								
2-11-76											
2-16-76											
2-27-76											
3-10-76	2.39	8	10.53								
3-20-76											
3-29-76											
4-13-76	2.3	7	4.4								
4-28-76	.38	7	.81								
5-5-76											
5-12-76	1.16	2	1.97								
10-26-76	.80	3	1.58	1.65	5.3	.91	1.54	.91	1.48	1.37	1.85
											3.19 JEFF N.

All numbers expressed in "number fibers longer than 5 micrometer/CC of air."

These are determined by obtaining at least five 15 minute samples in one eight hour working day by following expander operator doing his normal duties. Results of samples are then totaled and averaged, thus expressed as "8 hour time weighted average exposure."

This is determined by the maximum number of fibers on any one 15 minute sample during this sampling period. At least one 15 minute sample per week is obtained in expander area. Approximately equal time is spent on each of the eight floors.

Entire 15 minute sample is obtained in expander area on floor indicated.

Saturday: No Production - No Activity in area.
These were one hour samples.

PAGE 0006

ASBESTOS FIBER SAMPLING TRIONIZED EXPANDER AREA ①

<u>Date</u>	<u>8 Hr. Time</u>	<u>No. of Samples</u>	<u>Wt. Aver.</u>	<u>Taken for Exposure</u>	<u>Aver. Exp.</u>	<u>Maximum</u> ③	<u>Entire</u> ④	<u>Area Samples, By Floor</u> ⑤				
						<u>Ceiling Area</u>	<u>Concen-</u> <u>tration</u>	<u>Sample</u>	<u>Base-</u> <u>Ment</u>	<u>1st</u> <u>F1.</u>	<u>2nd</u> <u>F1.</u>	<u>3rd</u> <u>F1.</u>
3-10-77		.75				3 ⑥						
3-11-77		.42				3 ⑥						
5-17-77		.98				3 ⑥						
9-19-77		.111				3 ⑥						
2-23-78		.15				3 ⑥						
2-24-78		.28				6 ⑥						
3-3-78		.99				3 ⑥						
3-13-78		.89				3 ⑥						
6-19-78		.10				2 ⑥						
9-29-78		.29				4 ⑥						

PAGE 0007

Name

Expan-

Oper-

[REDACTED]

Scotts.

To: CHEM PLANT ASSOCIATES
cc:

From: Maury Decoster

Subject:

Date: January 16, 1976

PAGE 0008

Very small trace amounts of asbestos exist in the vermiculite ore used in our Trionized Process. Standards have been set by the federal government limiting the exposure to asbestos in any work environment. Ongoing testing by Scotts has shown that the levels of asbestos found in our plant are well within levels which the government has established as acceptable.

New regulations are now being proposed by the federal government to further lower the acceptable levels of asbestos exposure. It is our intent to meet and go beyond these new requirements proposed and generally to keep our levels of asbestos at the lowest possible amount. While only very large exposures to asbestos over long periods of many years have been medically linked to a scarring of the lungs called asbestosis and to certain types of cancer, it is only common sense for each of us to do everything in our power to reduce to the lowest possible level the asbestos exposures in our plant.

Even though our testing of the air has indicated that no health problems for any Scott associates were presented by the levels of asbestos found in our facilities, I am asking for the full co-operation of each Scott associate to see to it that major improvements are made in keeping the plant clean and dust-free.

I don't feel that it is enough that we just comply with the federal laws or regulations. Scotts must do more than that. Below I have set forth just a few of the first steps in what must become a crusade to clean up our plant and further improve the work environment for our associates: ..

1. A general plant clean-up of the Trionized Plant will be held on January 24-25. General clean-ups of all other plant areas will be scheduled as soon thereafter as possible.
2. Continuous monitoring and inspections of all plant areas will be frequently scheduled in the future.
3. All associates working in the Chemical Plant will be given chest X-rays and a medical examination on company time within the next six weeks. Thereafter, such examinations will be repeated annually,

CHEM PLANT ASSOCIATES

- 2 -

January 16, 1976

Supervisors have already contacted all associates working in areas where extremely small amounts of asbestos may be found. If you have not been contacted, none has been found in your work area, and this notice does not directly affect you.

However, we all have a responsibility to see to it that our working conditions are clean and safe.

MAY 21 1976



O M Scott & Sons

Marysville, Ohio 43040
(513) 642-6015

APR 00 10
WU

May 20, 1976

To All Scott Associates:

On February 29, March 1 and 2, approximately 450 Scott Associates participated in a chest x-ray and vital capacity test program at the Chem Plant. The tests became necessary because small trace amounts of asbestos are present in the vermiculite ore we use. Of all the Associates tested, none were judged to have asbestosis although three Associates were classified as having symptoms compatible with the early stages of the disease. Medical surveillance and tests will continue for these three cases until all doubts concerning the nature of the problem are resolved.

As with any testing program of this type, some non-occupationally caused medical problems or potential medical problems were discovered. Letters have already been mailed to those Associates who had even a slight abnormality in their test results. The great majority of these were of a non-serious nature. However, there were a few associates who had medical problems (non-industrial) which were considered serious enough to require further testing. These individuals were personally contacted by our consultant, Dr. John Evans, who has suggested the appropriate medical course of action.

Because it is our policy to provide a safe place in which to work, we will continue to closely monitor and examine both the work environment and raw materials we use. Additional x-rays will be scheduled in the next six months so that we can quickly establish a medical data base. Scotts remains a safe place in which to work. If you have any questions concerning the test program or your own personal results, please contact our Company nurse, Madeline Robinson.


Ron Wietelmann
Ron Wietelmann

Remove 5-25-76



O M Scott & Sons
Marysville, Ohio 43040
(513) 644-0011

PAGE 0011

February 8, 1977

Dear Scott Associate:

About three years ago industry in general became aware that vermiculite contains some asbestos fibers which can be released when the vermiculite ore is unloaded or expanded. Since learning of this we have done a substantial amount of air sampling and find that there are small amounts of airborne asbestos fibers present in some but not all areas of the plant.

As part of our expanded medical program, we began routine x-rays and vital capacity tests for all employees who work at the Chemical Plants or who visit them on a regular basis. These examinations are carefully reviewed and any significant variations from normal are individually discussed with each associate. Last Fall we followed that same pattern. Those preliminary tests and subsequent follow-up with a lung specialist recently have identified two men who now definitely have been diagnosed as having symptoms compatible with asbestosis.

Medical experts say that asbestosis is caused by asbestos fibers settling in the lungs and causing irritation. They also point out that some persons are more susceptible than others. Persons having asbestosis can expect to lead normal lives as long as they work in a relatively dust-free environment that also is free of asbestos fibers. A non-smoker who has asbestosis has a slightly increased possibility while a smoker having asbestosis runs a substantial risk of developing other lung diseases during his lifetime.

The two associates have been advised of the diagnosis and will be transferred to jobs which meet these requirements. In addition, we will also see that they suffer no loss of pay from this transfer.

What does all this mean, and what are we doing about it? Quite simply, it means we have a problem about which we knew nothing until recently - a problem which we will continue to work to minimize or eliminate. We are constantly running air sampling tests and results indicate that we are in accordance with all current government (OSHA) standards designed to protect workers. Nevertheless, we will continue to attack the source of the problem. Last summer's clean-up programs

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and the actions we have taken since then are steps in the right direction. We also have asked our Research Division to explore possible alternatives to vermiculite. In addition, we are currently expanding our medical surveillance to identify as early as possible any future cases that may arise. Early detection substantially minimizes the risk to anyone having asbestosis.

One final word is necessary. It is my commitment to you that we will do everything within our power to continue to make Scotts a safe place to work. Your help in reaching this goal will be most appreciated. If you have any questions or suggestions on this, please feel free to contact either your supervisor or me directly.


Ron Wietelmann

of

Scotts.

To: All FMS Supervisors
cc:

From: Ron Wielmann

Subject:

Date: February 22, 1977

PAGE 0013

Several questions have been asked concerning my letter of February 8. These questions are answered below. Should you be asked any further questions that you cannot answer, please forward them to me at your earliest convenience.

Question: It was indicated that asbestosis causes plural thickening of the lung wall. What other diseases cause plural thickening?

Answer: Any lung disease of infectious nature can cause plural thickening. That is, any disease which irritates the lung lining. Two examples would be pneumonia or tuberculosis.

Question: In what part of the lung does asbestosis occur?

Answer: Asbestosis occurs in the peripheral or outside edges of the lung where the fibers get lodged and cannot be easily expelled.

Question: What other diseases can one get from asbestos? Can it cause cancer?

Answer: Recent studies have shown the instances of lung cancer slightly higher with those having asbestosis and significantly greater with those who have asbestosis and smoke.

Question: Can asbestos effect the rest of the body?

Answer: No.

Question: Would it be beneficial to take x-rays more often?

Answer: Additional x-rays would not be beneficial since this disease occurs over long years of exposure and is slow developing.

Question: Why, then, was the second x-ray taken after only six months?

Answer: There are two reasons for taking a second x-ray six months after the first one. The first was to obtain a history on people in the area and the second was that there was some concern as to the quality of the first x-ray. The second x-ray was improved over the first and of quite good quality.

Part 0014

Question: If a person having asbestosis no longer works in a dusty environment, will his condition improve or go away?

Answer: Studies have shown that his condition will improve but not go away.

Question: A person having asbestosis should stay out of dust. Does that mean any kind of dust (off and on the job) for the rest of a persons life?

Answer: If asbestosis is present, all types of dust should be eliminated as much as possible. Dust can irritate an already present lung condition.

Question: What are symptoms of asbestosis?

Answer: Shortness of breath and coughing.

Question: How was the Packaging Operator exposed to asbestos?

Answer: We do not know this. Results of tests in the Packaging Area to date have shown the asbestos level at a maximum of one-fifth of the present standard for asbestos.

Question: How much asbestos is in raw ore? How much asbestos is in our products? Does fine vermiculite contain more asbestos than coarse particle? Does the expander temperature affect the amount of asbestos fibers left in the expanded vermiculite?

Answer: The best information we have indicates the asbestos content of raw ore can range to 0 - 5% for the grade we use. Asbestos has not been detected in any testing to date using expanded vermiculite or any of our products.

Question: How serious is asbestosis?

Answer: It affects people in different ways, and some are more susceptible than others. But usually a person having asbestosis can lead a normal life providing they are placed in a job which is relatively dust free and has no exposure to asbestos fibers.

Question: What happens to asbestos after vermiculite unloading?

Answer: During unloading asbestos fibers are released into the air. A portion of the asbestos is lost to the outside atmosphere. Some settles within the track area. That portion which settles could be airborne again. This is a major reason it is important to keep all areas, including the process area, cleaned up as much as possible.

Question: What is the OSHA attitude toward the track area?

Answer: We meet the OSHA requirement for this area with the use of respirators and the posting of signs.

Question: How harmful is vermiculite dust excluding the asbestos fibers?

Answer: No more harmful than many other kinds of inert dust.

Question: How good is the respirator we now use?

Answer: Our present respirator is NIOSH approved for areas where asbestos is present. Should an Operator have a problem with properly fitting this respirator, he should contact his Supervisor or Dick Gruenbaum for further instructions.

Question: Is there asbestos in M. D. C.?

Answer: In our testing of M.D.C. to date we have never found asbestos present. Additional testing is planned for the future.

Question: Will the present practice of transferring people into Trionized Process when needed be continued?

Answer: Our practice of transferring people from one area into another area as needed will be continued. If anyone has a concern as to his safety when working in an area such as Trionized Process, respirators are supplied for his use to provide proper protection from asbestos.

Question: Did Delbert Stultz die of asbestosis?

Answer: No. It is reported that Delbert had a heart attack.

CHEMICAL RAW MATERIALS
(As of 6/7/78)

Ammonium Hydroxide, 28%

Atrazine 80W (80% Wettable Powder)

Benomyl (Benlate) 50W (50% Wettable Powder)

Bensulide (Betasan)

Brilliant Green Crystals

Caustic Soda

Chloroneb (Demosan) 65W (65% Wettable Powder)

Chlorothalonil 75% Wettable Powder (Daconil 2787 W-75)

Chlorpyrifos, 94% (Dursban F)

Corncobs 14/40 C

2,4-D

Dacthal, 75% (75% Dimethyl T)

Diazinon MG8 (Stabilized, 87% Diazinon)

Dicamba, 85% (Banvel)

Diphenamid (Enide)

DSMA (Disodium Methanearsonate), 81% (Ansar 8100)

Dyrene, 80% Wettable Powder

Ethoprop (Mocap), 90.3%

FAS (Ferrous Ammonium Sulfate)

Ferrous Sulfate

Ferrous Sulfate Monohydrate

Florex RVM 16/30 Attapulgite Clay

Frit-504

Frit-505

Hi Sil

Lime, Dolomitic (CaO-MgO)

Linuron, 50%

Magnesium Sulfate, Anhydrous

Magnesium Sulfate, Heptahydrate

Manganese Sulfate

MCPP

Mon-A-Mon

Monuron, Technical (98%)

Neburon

Oxadiazon (Ronstar), Technical (98%)

PCNB (Terrachlor)

Pentachlorphenol (PCP, Dowicide EC-7)

PMA (Phenylmercuric Acetate)

Potash, Muriate of (KCl)

Potassium Sulfate

Siduron, 70% (Tupersan 70)

Sudan Orange RA

Sudan Red O

Sulfur

Sulfuric Acid

Terrazole, 35% Wettable Powder

Thiophanate-Methyl (Thiophate M, Topsin M)

Thiram

UFC

Urea

Vermiculite

Victoria Green Liquid Dye

~~FEB 1978~~

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THE LAWN PEOPLE

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John P. Kennedy
Vice President &
General Counsel

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1/17/79 CG

January 29, 1979

PAGE 0002

Mr. Charles M. Auer
Chemist
Environmental Protection Agency.
Office of Toxic Substances (TS-792)
4th and M Street, S.W. (Waterside Mall)
Washington, D. C. 20460

Dear Mr. Auer:

As indicated in our correspondence and discussions in late 1978, this letter is to update you on the progress of our investigation into the matter reported orally on November 29, 1978, and confirmed by letter on December 5, 1978. A team of three OSHA Industrial Hygienists from Columbus and Cincinnati offices have spent about ten days at our facility in Marysville inspecting the facility, sampling for various materials in the work environment and collecting data. The sample results are expected to be ready by the end of February. In addition, three OSHA medical consultants from the University of Cincinnati visited Marysville to review certain medical records and interview some Scott employees. It is my understanding that a final report with conclusions and recommendations will follow within a couple months after all of the data is collected by these consultants. Dr. Stuart Brooks is heading this consulting team.

As promised previously, rather than send you a copy of everything provided the OSHA contacts which has become very voluminous, I have listed on the attached sheet the written material provided them. The confidential material has been asterisked on this list.

I might also mention that Dr. Prior has been contacted by a Dr. Kleinemann of Case Western Reserve University in Cleveland on this matter. Dr. Kleinemann apparently indicated that he had been retained by a consultant by EPA to investigate. Rather than repeat all steps of the rather laborious investigation, I would hope that Dr. Kleinemann could coordinate with Dr. Brooks or that EPA could make a contact directly with Dr. Brooks through OSHA so that the entire investigation can be handled in a coordinated, non-repetitive fashion.

Mr. Charles M. Auer

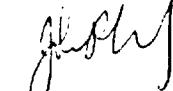
- 2 -

January 29, 1979

DISC 0003

Thank you for your attention to this matter. Should you have any questions, please don't hesitate to give me a call.

Yours very truly,



John P. Kennedy
Vice President &
General Counsel

JPK:sh

Enclosure

cc: R. Hays Bell, Ph.D
Director
Technical Support Directorate
N 3605
USDOL/OSHA
200 Constitution Avenue
Washington, D. C. 20001

Material Provided OSHA Contacts

1. Ore Testing:
 - Summary Sheet (1 pg.)
 - McCrone Letter (6/20/77) (1)
 - R.W. Memo (6/6/77) (2) *
 - McCrone Letter (4)
 - A.D. Memo (3/16/77) (3)
 - Clayton Report (2/6/76) (2)
 - Gulf Report (3/11/76) (3)
 - EHL Report (1/7/76) (2)
 - D.G. Memo (8/11/76) (4)
 - A.D. Memo (2/3/78) (12)
 - S.V.C. Memo (9/1/77) (3)
 - MH Test (1/24/78) (11)
 - Grace Test (12/8/77) (13)
 - PA Test (1/30/78) (16)
2. Plant & Product:
 - Summary Sheet (1)
 - Flow Diagram (1) *
 - Folk Memo (2)
 - R.F. Memo (12/4/78) (26 pp.) * (All Confid.)
3. Plant Sampling:
 - Summary Sheet (2)
 - Grace (6/9/72) (2)
 - D.G. Memo (8/28/78) (8)
 - D.G. Memo (1/10/77) (33)
 - PIPES Report (5/16/72) (7)
 - GV Report (38)
 - Dust Report
4. Chemicals:
 - Summary Sheet (1)
 - J.K. Memo (12/13/78) (1) *
 - Demosan (15)
 - Dursban (77)
 - Cacodylic Acid (4)
 - Thiram (7)
 - 2,4-D (14)
 - FTE 504
 - Q. Spec. *
 - FS (6)
 - Fullers Earth (3)
 - Betasan (2)
 - 2,4-D (2)
 - Dyrene (2)
 - 2-36 (2)
 - Vermiculite (2)
 - Tox. Clause (1)
 - Manf. (1)
 - Betasan (5)
 - Chloroneb (1)

4. Chemicals:
(Cont.) 2,4-D (2)
 DSMA (2)
 Dycrene (3)
 Neburon (1)
 PCNB (1)
 PMA (1)
 UFC (2)
 Dursban (5)
 Diazinon (4)

SAMPLE ID. (DATE)	EMPLOYEE MONITORED	OPERATION (DEPARTMENT)	SAMPLE TIME IN MINUTES	TOTAL FIBERS	ASBESTOS FIBERS (SUSPECTED)	ASBESTOS FIBERS (SUSPECTED)	FIBERGLASS FIBERS	MICRO FIBERS	PLANT FIBERS	ASBESTOS FIBERS CONFIRMED	COMMENTS
M-05-1 12-5-78		SCREENS + MILLS TRONIZED	22 MINUTES	2.5	2.5	0.095 FIB/CC			/		BLINDING & OPERATOR NO ROOM ROTATES EVERY TWO HOURS CLOTHES SCREENS FILLED A LOT sooner. However, on 12-5-78 THE OPERATORS DID NOT ROTATE.
M-05-2 12-5-78		SCREENS + MILLS TRONIZED	15 MINUTES	NONE	/	None Detected D.L. = 0.11 FIB/CC			/		
M-05-3 12-5-78		SCREENS + MILLS TRONIZED	14 MINUTES	4.5	3.5	0.21 FIBERS/CC	1.0		/		
M-05-4 12-5-78		SCREENS + MILLS TRONIZED	46 MINUTES	NONE	/	NONE DETECTED D.L. = 0.036 FIB/CC			/		
M-05-5 12-5-78		SCREENS + MILLS TRONIZED	96 MINUTES	7.0	6.5	0.051 FIB/CC	0.5		/		
M-05-6 12-5-78		SCREENS + MILLS TRONIZED	15 MINUTES	1.0	/	None Detected D.L. = 0.11 FIB/CC			/		
M-05-7 12-5-78		SCREENS + MILLS TRONIZED	82 MINUTES	4.0	3.5	0.036 FIB/CC	0.5		/		
M-05-8 12-5-78		SCREENS + MILLS TRONIZED	23 MINUTES	0.5	/	None Detected D.L. = 0.073 FIB/CC			/		
M-05-9 12-5-78		SCREENS + MILLS TRONIZED	59 MINUTES	1.0	1.0	New Detected D.L. = 0.028 FIB/CC			/		
M-05-10 12-5-78		SCREENS + MILLS TRONIZED	29 MINUTES	1.0	1.0	None Detected D.L. = 0.058 FIB/CC			/		
M-06-3-3 12-6-78		SCREENS + MILLS TRONIZED	24 MINUTES	14.0	8.5	0.29 FIB/CC	5.0		/	0.5	
M-06-3-7 12-6-78		SCREENS + MILLS TRONIZED	15 MINUTES	6.5	6.5	0.35 FIB/CC			/		
M-06-4-0 12-6-78		SCREENS + MILLS TRONIZED	7.5 minutes	/					/		COLLECTOR ON CLOTH FILTER - NO FILTER FLOOR WENT HOME

ASBESTOS SURVEYING RESULTS

SAMPLE ID. (DATE)	EMPLOYEE MONITORED	OPERATION (DEPARTMENT)	SAMPLE TIME IN MINUTES	TOTAL FIBERS	ASBESTOS FIBERS (SUSPECTED)	FIBERGLASS FIBERS	MINERAL FIBERS	PLANT FIBERS	ASBESTOS FIBERS CONFIRMED	COMMENTS
					ASBESTOS FIBERS (SUSPECTED)	ASBESTOS FIBERS (SUSPECTED)				
M-05-11 12-5-78	CLEANING Dyer #1 TRIONIZED	CLEANING Dyer #1 TRIONIZED	51 MINUTES	1.5	1.5	NONE DETECTED	/	/	/	Note: ≤ 2.0 FIBERS/CC D.L. = 0.032 FIB/CC
M-05-12 12-5-78	CLEANING Dyer #1 TRIONIZED	CLEANING Dyer #1 TRIONIZED	51 MINUTES	NONE	/	D.L. = 0.032 FIB/CC	/	/	/	0.0
M-05-13 12-5-78	CLEANING Dyer #1 TRIONIZED	CLEANING Dyer #1 TRIONIZED	35 MINUTES	10.0	9.0	D.L. = 0.028 FIB/CC 0.2 FIB/CC	1.0	/	/	
M-05-14 12-5-78	CLEANING Dyer #1 TRIONIZED	CLEANING Dyer #1 TRIONIZED	15 MINUTES	0.5	0.5	NONE DETECTED D.L. = 0.031 FIB/CC	/	/	/	
M-05-15 12-5-78	CLEANING Dyer #1 TRIONIZED	CLEANING Dyer #1 TRIONIZED	44 MINUTES	0.5	0.5	NONE DETECTED D.L. = 0.031 FIB/CC	/	/	/	
M-05-16 12-5-78	CLEANING Dyer #1 TRIONIZED	CLEANING Dyer #1 TRIONIZED	38 MINUTES	7.0	7.0	D.0.15 FIB/CC	/	/	/	
M-05-17 12-5-78	CLEANING Dyer #1 TRIONIZED	CLEANING Dyer #1 TRIONIZED	82 MINUTES	1.0	0.5	NONE DETECTED D.L. = 0.028 FIB/CC	0.5	/	/	
M-05-18 12-5-78	CLEANING Dyer #1 TRIONIZED	CLEANING Dyer #1 TRIONIZED	54 MINUTES	11.5	8.0	D.0.12 FIB/CC	3.5	/	/	
M-05-19 12-5-78	CLEANING Dyer #1 TRIONIZED	CLEANING Dyer #1 TRIONIZED	40 MINUTES	4.5	4.5	D.0.092 FIB/CC	/	/	/	
M-05-20 12-5-78	CLEANING Dyer #1 TRIONIZED	CLEANING Dyer #1 TRIONIZED	36 MINUTES	NONE	/	NONE DETECTED D.L. = 0.032 FIB/CC	/	/	/	
M-05-21 12-5-78	CLEANING Dyer #1 TRIONIZED	CLEANING Dyer #1 TRIONIZED	61 MINUTES	2.5	1.0	NONE DETECTED D.L. = 0.027 FIB/CC	/	/	/	
M-05-30 12-5-78	CLEANING Dyer #1 TRIONIZED	CLEANING Dyer #1 TRIONIZED	29 MINUTES	2.0	2.0	NONE DETECTED D.L. = 0.056 FIB/CC	/	/	/	
M-05-31 12-5-78	CLEANING Dyer #1 TRIONIZED	CLEANING Dyer #1 TRIONIZED	22 MINUTES	5.5	0.5	NONE DETECTED D.L. = 0.07 FIB/CC	/	/	/	
M-05-32 12-5-78	CLEANING Dyer #1 TRIONIZED	CLEANING Dyer #1 TRIONIZED				* S.O. FIBERS UNKNOWN TYPE				

SAMPLE ID. (DATE)	EMPLOYEE MONITORED	OPERATION (DEPARTMENT)	SAMPLE TIME IN MINUTES	TOTAL FIBERS	ASBESTOS FIBERS (SUSPECTED)	FIBERGLASS FIBERS (SUSPECTED)	MINERAL FIBERS	PLANT FIBERS	ASBESTOS FIBERS CONFIRMED	COMPARISONS	
										ASBESTOS FIBERS (CONFIRMED)	FIBERGLASS FIBERS (CONFIRMED)
11-05-33 12-5-78	CLEANING DRYER #1 TRIONIZED	CLEANING DRYER #1 TRIONIZED	42 MINUTES	1.5	0.5	NONE DETECTED D.L. = 0.03 FIB/CC	1.0	/	/	0	0
11-05-34 12-5-78	CLEANING DRYER #1 TRIONIZED	CLEANING DRYER #1 TRIONIZED	124 MINUTES	13	9.5	0.063 FIB/CC	/	/	3.5	/	/
11-05-35 12-5-78	CLEANING DRYER #1 TRIONIZED	CLEANING DRYER #1 TRIONIZED	62 MINUTES	1.0	1.0	NONE DETECTED D.L. = 0.016 FIB/CC	/	/	/	* 3.5 UNKNOWN FIBER TYPE	/
11-05-36 12-5-78	CLEANING DRYER #1 TRIONIZED	CLEANING DRYER #1 TRIONIZED	24 MINUTES	4.5	1.0	NONE DETECTED D.L. = 0.069 FIB/CC	/	/	/	* 2.5 UNKNOWN FIBER TYPE	/
11-05-37 12-5-78	CLEANING DRYER #1 TRIONIZED	CLEANING DRYER #1 TRIONIZED	BLANK	/	/	NONE DETECTED BLANK	/	/	/	* 3 UNKNOWN FIBER TYPE	/
11-07-64 12-7-78	CLEANING DRYER #2 TRIONIZED	CLEANING DRYER #2 TRIONIZED	15 minutes	5	2	NONE DETECTED	/	/	/	/	/
11-07-65 12-7-78	CLEANING DRYER #2 TRIONIZED	CLEANING DRYER #2 TRIONIZED	32 MINUTES	10	0.5	NONE DETECTED	/	/	/	* 0.5 UNKNOWN FIBER TYPE	/
11-07-66 12-7-78	CLEANING DRYER #2 TRIONIZED	CLEANING DRYER #2 TRIONIZED	53 MINUTES	2	/	NONE DETECTED	-	/	/	* 1 UNKNOWN FIBER TYPE	/
11-07-67 12-7-78	CLEANING DRYER #2 TRIONIZED	CLEANING DRYER #2 TRIONIZED	22 MINUTES	/	/	NOT ANALYZED	/	/	/	COLLECTED DRYER FILTER - NO COUNT	/
11-07-68 12-5-78	CLEANING DRYER #2 TRIONIZED	CLEANING DRYER #2 TRIONIZED	48 MINUTES	9.5	3.5	0.060 FIB/CC	/	/	/	* 6 UNKNOWN FIBER TYPE	/
11-07-69 12-7-78	CLEANING DRYER #2 TRIONIZED	CLEANING DRYER #2 TRIONIZED	58 MINUTES	5.5	/	NONE DETECTED	/	/	/	* 0.7 UNKNOWN FIBER TYPE	/
11-05-20 12-5-78	PRODC MIXED DRYER #2	PRODC MIXED DRYER #2	50 MINUTES	7.0	7.0	0.12 FIB/CC	/	/	/	* 0.7 UNKNOWN FIBER TYPE	/
11-05-21 12-5-78	PRODC MIXED DRYER #2	PRODC MIXED DRYER #2	56 MINUTES	4.0	4.0	0.06 FIB/CC	/	/	/	* 0.5 UNKNOWN FIBER TYPE	/

SAMPLE ID, (DATE)	EMPLOYEE MONITORED	OPERATION (DEPARTMENT)	SAMPLE TIME IN MINUTES	TOTAL FIBERS	ASBESTOS FIBERS (SUSPECTED)	FIBERGLASS FIBERS	MINERAL FIBERS	PLANT FIBERS	ASBESTOS FIBERS CONFIRMED	COMMENTS
11-05-22 12-5-78	[REDACTED]	PADDLE MIXER DRYER #2 TRI-IZED	63 MINUTES	4.0	0.059 FIB/CC	0.5				PAGE 000
11-05-23 12-5-78	[REDACTED]	PADDLE MIXER DRYER #2 TRI-IZED	32 MINUTES	6.0	0.16 FIB/CC					
11-05-24 12-5-78	[REDACTED]	PADDLE MIXER DRYER #2 TRI-IZED	30 MINUTES	3.5	0.099 FIB/CC					
11-05-25 12-5-78	[REDACTED]	PADDLE MIXER DRYER #2 TRI-IZED	45 MINUTES	3.0	1.5	NON DETECTED DL = 0.038 FIB/CC				* S.O. FIBERS OF DURACUT NYLON
11-05-26 12-5-78	[REDACTED]	PADDLE MIXER DRYER #2 TRI-IZED	60 MINUTES	10.5	2.5	0.035 FIB/CC				
11-05-27 12-5-78	[REDACTED]	PADDLE MIXER DRYER #2 TRI-IZED	54 MINUTES	4.0	5	0.039 FIB/CC	2.0			
11-05-28 12-5-78	[REDACTED]	Middle mixer DRYER #2 TRI-IZED	69 MINUTES	NONE		NON DETECTED DL = 0.025 FIB/CC				
11-06-47 12-6-78	[REDACTED]	PADDLE MIXER DRYER #1 TRI-IZED	66 MINUTES	/		NOT ANALYZED				NOT ANALYZED - SAMPLE COLLECTED AT P. FILTER SCREEN COUNT MADE
11-06-48 12-6-78	[REDACTED]	PADDLE MIXER DRYER #1 TRI-IZED	74 MINUTES	17	17	0.19 FIB/CC				
11-06-49 12-6-78	[REDACTED]	PADDLE MIXER DRYER #1 TRI-IZED	65 MINUTES	5.0	5	0.045 FIB/CC	2.0			
11-06-50 12-6-78	[REDACTED]	PADDLE MIXER DRYER #1 TRI-IZED	37 MINUTES	/		NOT ANALYZED				SAMPLE COLLECTED CTP FILTER SONO COUNT MADE
11-06-51 12-6-78	[REDACTED]	PADDLE MIXER DRYER #1 TRI-IZED	67 MINUTES	/		NOT ANALYZED				SAMPLE COLLECTED CTP FILTER SONO COUNT MADE
11-06-52 12-6-78	[REDACTED]	PADDLE MIXER DRYER #1 TRI-IZED	107 MINUTES	NONE		NON DETECTED ALL 4010s				
11-06-53 12-6-78	[REDACTED]	PADDLE MIXER DRYER #1 TRI-IZED	107 MINUTES	NONE						

EMPLOYEE ID. (DATE)	EMPLOYEE MONITORED	OPERATION (DEPARTMENT)	SAMPLE TIME IN MINUTES		TOTAL FIBERS	ASBESTOS FIBERS (SUSPECTED)	ASBESTOS FIBERS/CC (SUSPECTED)	FIBERGLASS FIBERS	PLANT FIBERS	MINERAL FIBERS	ASBESTOS FIBERS CONFIRMED	COMMENTS
			CONTROLS	TRIONIZED								
11-06-53 2-6-78		CONTROL OPERATOR TRIONIZED	52 MINUTES	2.5	2.5	0.040 FIB/CC	0.040 FIB/CC	/	/	/	/	OPERATED WITH ONLY 51 FIBERS REMOVED.
11-06-54 12-6-78		CONTROL OPERATOR TRIONIZED	81 MINUTES	3.5	2.5	0.026 FIB/CC	1.0	/	/	/	/	
11-06-55 12-6-78		CONTROL OPERATOR TRIONIZED	26 MINUTES	3.0	3.0	0.096 FIB/CC	/	/	/	/	/	
11-06-56 12-6-78		CONTROL OPERATOR TRIONIZED	65 MINUTES	6.5	6.5	0.083 FIB/CC	/	/	/	/	/	COLLECTED ON CLOTH FILTER - NO FIBERS COUNTED.
11-06-57 12-6-78		CONTROL OPERATOR TRIONIZED	53 MINUTES	/	/	NORMALIZED	/	/	/	/	/	
11-06-58 12-6-78		CONTROL OPERATOR TRIONIZED	38 MINUTES	3.5	3.5	0.077 FIB/CC	/	/	/	/	/	* 6.0 UNKNOWN FIBERS
B-5-1 12-5-78		CONTROL OPERATOR TRIONIZED	63 MINUTES	9.0	3.0	0.040 FIB/CC	/	/	/	/	/	* 2.0 UNKNOWN FIBERS
B-5-2 12-5-78		CONTROL OPERATOR TRIONIZED	122 MINUTES	6.5	3.5	0.024 FIB/CC	1.0	/	/	/	/	
B-5-3 12-5-78		CONTROL OPERATOR TRIONIZED	115 MINUTES	1.0	1.0	NONE DETECTED	/	/	/	/	/	
J-5-4 12-5-78		CONTROL OPERATOR TRIONIZED	115 MINUTES	/	/	DL = 0.11 FIB/CC	/	/	/	/	/	
J-5-5 12-5-78		CONTROL OPERATOR TRIONIZED	122 MINUTES	/	/	LOST IN ANALYSIS	/	/	/	/	/	
J-5-6 12-5-78		CONTROL OPERATOR TRIONIZED	122 MINUTES	1.0	1.0	NONE DETECTED	/	/	/	/	/	
J-5-7 12-5-78		CONTROL OPERATOR TRIONIZED	109 MINUTES	3.5	2.0	NONE DETECTED	/	/	/	/	/	* 4.5 UNKNOWN FIBERS
J-5-8 12-5-78		CONTROL OPERATOR TRIONIZED	151 MINUTES	4.5	2.5	0.0082 FIB/CC	/	/	/	/	/	* 2.0 UNKNOWN FIBERS
J-5-9 12-5-78		CONTROL OPERATOR TRIONIZED	100 MINUTES	0.5	0.5	0.000 FIB/CC	/	/	/	/	/	

SAMPLE ID, EMPLOYEE (DATE)	OPERATION MONITORED (DEPARTMENT)	SAMPLE TIME IN MINUTES	TOTAL FIBERS	ASBESTOS FIBERS (SUSPECTED)	POLYESTER FIBERS	MICRO FIBERS	PLANT FIBERS	ASBESTOS FIBERS CONFIRMED	COMMENTS
B-6-31 12-6-78	FEEDER OPERATOR TRIIONIZED	204 MINUTES	7.0	4.5	0.019 FIB/CC	✓	✓	✓	* 2.5 PLANTS UNKNOWN
3-6-32 12-6-78	FEEDER OPERATOR TRIIONIZED	105 MINUTES	9.5	5.5	0.044 FIB/CC	1.5	✓	✓	* 2.5 PLANTS UNKNOWN
B-6-33 12-6-78	SEWAGE OPERATOR TRIIONIZED	99 MINUTES	3.0	1.0	NONE DETECTED D.L = 0.01 FIB/CC	0.5	✓	✓	* 1.5 PLANTS UNKNOWN
B-6-34 12-5-78	PROCESSOR OPERATOR EXPANSION AREA TRIIONIZED	71 MINUTES	2.0	1.0	NONE DETECTED D.L = 0.023 FIB/CC	✓	✓	✓	* 1.0 PLANTS UNKNOWN
B-5-12 12-5-78	PROCESSOR OPERATOR EXPANSION AREA TRIIONIZED	296 MINUTES	15.0	7.5	0.020 FIB/CC	✓	✓	✓	* 7.5 PLANTS UNKNOWN
B-5-13 12-5-78	PROCESSOR OPERATOR EXPANSION AREA TRIIONIZED	60 MINUTES	NONE	✓	NONE DETECTED 0.017 FIB/CC	✓	✓	✓	
B-5-14 12-6-78	PROCESSOR OPERATOR EXPANSION AREA TRIIONIZED	109 MINUTES	✓	✓	NOT ANALYZED	✓	✓	✓	
B-6-15 12-6-78	PROCESSOR OPERATOR EXPANSION AREA TRIIONIZED	BLANK	NONE	✓	BLANK FILTER	✓	✓	✓	
3-6-16 12-6-78	PROCESSOR OPERATOR EXPANSION AREA TRIIONIZED	BLANK	✓	✓	NOT ANALYZED	✓	✓	✓	COLLECTED ON CLOTH FILTER - NO CLOTH FOUND
B-6-20 12-6-78	PROCESSOR OPERATOR EXPANSION AREA TRIIONIZED	✓	✓	✓	NOT ANALYZED	✓	✓	✓	COLLECTED ON CLOTH FILTER - NO CLOTH FOUND
B-6-21 12-6-78	PROCESSOR OPERATOR EXPANSION AREA TRIIONIZED	✓	✓	✓	NOT ANALYZED	✓	✓	✓	COLLECTED ON CLOTH FILTER - NO CLOTH FOUND
B-6-22 12-6-78	PROCESSOR OPERATOR EXPANSION AREA TRIIONIZED	92 MINUTES	3.5	2.5	0.022 FIB/CC	✓	✓	✓	* 1.0 UNKNOWN FILTER
B-6-27 12-6-78	PROCESSOR OPERATOR EXPANSION AREA TRIIONIZED	219 MINUTES	25.5	15.5	0.059 FIB/CC	2.0	✓	✓	* THIS EMERGENCY REACTOR THIS IS SHUT DOWN NOW. LATE
C-07-09 12-7-78	PROCESSOR OPERATOR EXPANSION AREA TRIIONIZED	31 MINUTES	14	4	0.11 FIBERS/CC	✓	✓	✓	* 5.0 UNKNOWN FILTER
C-07-10 12-7-78	PROCESSOR OPERATOR EXPANSION AREA TRIIONIZED	67 MINUTES	16	6	0.075 FIBERS/CC	✓	✓	✓	* UNKNOWN FILTER

SAMPLE ID. (DATE)	EMPLOYEE MONITORED	OPERATION (DEPARTMENT)	SAMPLE TIME IN MINUTES	TOTAL FIBERS	ASBESTOS FIBERS (SUSPECTED)	ASBESTOS FIBERS (CC (SUSPECTED))	POLYESTER FIBERS	MICROFIBERS	PLANT FIBERS	ASBESTOS FIBERS CONFIRMED	COMMENTS
C-07-11 12-7-78		Process Operator Expansion Area Tronized	113 Minutes	22.5	10.0	0.074 Fib/cc	1.5				ALL UNIDENTIFIED FIBERS
C-07-12 12-7-78		Process Operator Expansion Area Tronized	24 Minutes	2		None Detected D.L. = 0.039 Fib/cc	/				0
C-07-13 12-7-78		Process Operator Expansion Area Tronized	57 Minutes	11.5	4	0.058 Fib/cc					1
C-07-14 12-7-78		Process Operator Expansion Area Tronized	65 Minutes	95.5	29.5	0.38 Fib/cc	9.5				3
C-07-15 12-7-78		Process Operator Expansion Area Tronized	55 Minutes	24.5	16.0	0.24 Fib/cc	1.0				7.5 UNKNOWN FIBERS
B-5-6 12-5-78		Track Unloading Area Tronized	109 Minutes	11.0	4.5	0.034 Fib/cc	1.0				NO VISIBLE ASBESTOS UNLOADING DURING 13-S. OR 07-78 + 5.5.8.1800 UNKNOWN
B-5-7 12-5-78		Track Unloading Area Tronized	77 Minutes	4.5	1.5	None Detectable					* 2.0 FIBERS UNKNOWN
B-5-8 12-5-78		Track Unloading Area Tronized	80 Minutes	0.5	0.5	D.L. = 0.003 Fib/cc	1.0				NO VISIBLE ASBESTOS UNLOADING DURING 13-S. 15-17 W/2 UNKNOWN + 5.5.8.1800 UNKNOWN
B-5-15 12-5-78		Track Unloading Area Tronized	113 Minutes	14.5	5.5	0.021 Fib/cc					* 0.5 FIBERS UNKNOWN
B-5-16 12-5-78		Track Unloading Area Tronized	103 Minutes	0.5		None Detected D.L. = 0.016 Fib/cc					
B-5-17 12-5-78		Track Unloading Area Tronized	72 Minutes	None		None Detected D.L. = 0.023 Fib/cc					
B-6-23 12-6-78		Track Unloading Area Tronized	128 Minutes	/		Not Analyzed					UNIDENTIFIED LIBBY OAC STAMP W/18 ASBESTOS UNLOADING CTPU FIBERS + 5.5.8.1800 UNKNOWN
B-6-24 12-6-78		Track Unloading Area Tronized	15 Minutes	4.5	3.5	0.19 Fibres/cc	1.0				
B-6-25 12-6-78		Track Unloading Area Tronized	28 Minutes	/		Not Analyzed					COLLECTED ON CTPU PLATE BUT NOT ANALYZED LATER

SAMPLE ID. (DATE)	EMPLOYEE MONITORED	OPERATION (DEPARTMENT)	SAMPLE TIME IN MINUTES	TOTAL FIBERS	ASBESTOS FIBERS (SUSPECTED)	ASBESTOS FIBERS/CC (SUSPECTED)	FIBERGENS	MINERAL FIBERS	PLANT FIBERS	ASBESTOS FIBERS CONFIRMED	COMMENTS
B-6-26 12-6-78		TRACK UNLOADING AREA TERMINAL	15 MINUTES	6.5	3.0	0.17 FIBERS/CC	1.0	/	/	* 2.5 FIBERS UNKNOWN	
B-6-27 12-6-78		TRACK UNLOADING AREA TERMINAL	109 MINUTES	4.5	2.5	0.0875 FIBERS/CC	1.0	/	/	* 1.0 FIBERS UNKNOWN	
B-6-28 12-6-78		TRACK UNLOADING AREA TERMINAL	121 MINUTES	2.5	1.5	NONE DETECTED	/	/	/	* 1.0 FIBERS UNKNOWN	
B-6-34 12-6-78		TRACK UNLOADING AREA TERMINAL	138 MINUTES	16.0	13.0	0.078 FIBERS/CC	0.5	/	/	UNKNOWN 61000 VERMICULITE 1.5 FIBERS UNKNOWN	
B-6-35 12-6-78		TRACK UNLOADING AREA TERMINAL	104 MINUTES	4.0	1.5	NONE DETECTED	0.17 OR 0.016 FIBERS/CC	1.0	/	* 1.5 FIBERS UNKNOWN	
B-6-36 12-6-78		TRACK UNLOADING AREA TERMINAL	58 MINUTES	3.0	1.5	NONE DETECTED	0.024 FIBERS/CC	0.5	/	* 1.0 FIBERS UNKNOWN	
B-6-37 12-6-78		TRACK UNLOADING AREA TERMINAL	114 MINUTES	1.5	/	NONE DETECTED	0.014 FIBERS/CC	/	/	* 1.5 FIBERS UNKNOWN	
C-07-01 12-7-78		TRACK UNLOADING AREA TERMINAL	74 MINUTES	1.5	0.5	NONE DETECTED	0.023 FIBERS/CC	/	/	* 1.0 FIBERS UNKNOWN	
C-07-02 12-7-78		TRACK UNLOADING AREA TERMINAL	71 MINUTES	1.5	0.5	NONE DETECTED	0.024 FIBERS/CC	/	/	* 1.0 FIBERS UNKNOWN	
C-07-03 12-7-78		TRACK UNLOADING AREA TERMINAL	18 MINUTES	47.5	24.5	1.0 FIBERS/CC	10.5	/	/	* 12.5 FIBERS UNKNOWN	
C-07-CY 12-7-78		TRACK UNLOADING AREA TERMINAL	51 MINUTES	0.5	/	NONE DETECTED	0.033 FIBERS/CC	/	/	* 0.5 FIBERS UNKNOWN	
C-07-CS 12-7-78		TRACK UNLOADING AREA TERMINAL	201 MINUTES	1	/	NONE DETECTED	0.033 FIBERS/CC	/	/	* 0.0 FIBERS UNKNOWN	
C-07-04 12-7-78		TRACK UNLOADING AREA TERMINAL	71 MINUTES	1	0.5	NONE DETECTED	0.024 FIBERS/CC	/	/	* 0.5 FIBERS UNKNOWN Running 80% AF in Vol	
C-07-07 12-7-78		TRACK UNLOADING AREA TERMINAL	189 MINUTES	NONE	/	NONE DETECTED	0.009 FIBERS/CC	/	/		

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SAMPLE ID. (DATE)	EMPLOYEE MONITORED	OPERATION (DEPARTMENT)	SAMPLE TIME IN MINUTES	TOTAL FIBERS	ASBESTOS FIBERS (SUSPECTED)	FIBERGLASS FIBERS	MINERAL FIBERS	PLANT FIBERS	ASBESTOS FIBERS CONFIRMED	COMMENTS
C-07-08 12-7-78		TRACK UNLOADING TRAILERIZED	175 MINUTES	1.0	1.0	NONE DETECTED D.L. = 0.009 FIB/CC (SUBCRETE)	/	/	/	PAGE 0015
C-08-16 12-8-78		TRACK UNLOADING ACCA TRAILERIZED	17 MINUTES	2.0	2.0	NONE DETECTED D.L. = 0.018 FIB/CC	/	/	/	
C-08-17 12-8-78		TRACK UNLOADING ACCA TRAILERIZED	13 MINUTES	NONE	/	NONE DETECTED D.L. = 0.013 FIB/CC	/	/	/	
M-07-70 12-7-78		DOMESTIC #3 CONTROL PACKAGING AREA	113 MINUTES	3.0	/	NONE DETECTED D.L. = 0.015 FIB/CC	/	/	/	* 3 FIBERS UNKNOWN
M-07-71 12-7-78		DOMESTIC #3 CONTROL PACKAGING AREA	90 MINUTES	0.5	0.5	NONE DETECTED D.L. = 0.019 FIB/CC	/	/	/	
M-07-72 12-7-78		DOMESTIC #3 CONTROL PACKAGING AREA	59 MINUTES	NONE	/	NONE DETECTED D.L. = 0.028 FIB/CC	/	/	/	
M-07-73 12-7-78		DOMESTIC #3 CONTROL PACKAGING AREA	144 MINUTES	1.0	/	NONE DETECTED D.L. = 0.012 FIB/CC	/	/	/	1 FIBER UNKNOWN
M-07-74 12-7-78		1A Packing Line Truck Bed Recovery	120 MINUTES	0.5	0.5	NONE DETECTED D.L. = 0.019 FIB/CC	/	/	/	
M-07-75 12-7-78		1A Packing Line Truck Bed Recovery	62 MINUTES	NONE	/	NONE DETECTED D.L. = 0.027 FIB/CC	/	/	/	
M-07-76 12-7-78		1A Packing Line Truck Bed Recovery	219 MINUTES	/	/	NOT ANALYZED	/	/	/	COLLECTED ON CTBV NO ASBESTOS COUNT MADE
M-07-77 12-7-78		1A/1B Packing Line	122 MINUTES	NONE	/	NONE DETECTED D.L. = 0.014 FIB/CC	/	/	/	
M-07-78 12-7-78		1A/1B Packing Line	279 MINUTES	14.0	0.5	NONE DETECTED D.L. = 0.0060 FIB/CC	/	/	/	* 13.5 FIBERS UNKNOWN

SAMPLE ID. (DATE)	EMPLOYEE MONITORED	OPERATION (DEPARTMENT)	SAMPLE TIME IN MINUTES	TOTAL FIBERS	ASBESTOS FIBERS (SUSPECTED)	FIBERGLASS FIBERS	MINERAL FIBERS	PLANT FIBERS	ASBESTOS FIBERS CONFIRMED	COMMENTS
M-07-80 12-7-78		LINE 1A-Ricky's TRIMMED PICKING	397 MINUTES	/	/	/	/	/	/	ASBESTOS FIBERS FROM LAB ONLY COUNT AND BACKUP PAD JO COULD NOT BE ANALYZED
M-07-81 12-7-78		BUNK	/	/	/	/	/	/	/	
M-07-82 12-7-78		BLANK	/	/	/	/	/	/	/	PAGE 0
M-08-83 12-8-78	LIVE YA-Packaging TRIMMED PICKING	222 MINUTES	4.0	6.0	0.014 FIB/CC	/	/	/	/	
M-08-84 12-8-78	LIVE YA-Packaging POLYTHYM PICKING	194 MINUTES	4.0	6.0	0.025 FIB/CC	/	/	/	/	
M-08-85 12-8-78	LIVE 1B TRIMMED PACKAGING AREA	233 MINUTES	7.0	1.0	NONE DETECTED	/	/	/	/	* 6 FIBERS UNKNOWN
M-08-86 12-8-78	LIVE 1B TRIMMED PACKAGING AREA	191 MINUTES	4.0	1.0	NONE DETECTED	/	/	/	/	* 3 FIBERS UNKNOWN
M-08-87 12-8-78	LIVE 3A POLYTHYM PACKAGING AREA	117 MINUTES	1.5	NONE DETECTED	0.0092 FIB/CC	/	/	/	/	
M-08-88 12-8-78	LIVE 2A ACRONYM PACKAGING AREA	83 MINUTES	/	NONE DETECTED	0.014 FIB/CC	/	/	/	/	COLLECTED ON CTP/ FILTER - NO ADJUST COUNT UNMADE
M-08-89 12-8-78	LIVE 3A POLYTHYM PACKAGING AREA	156 MINUTES	10.5	7	0.036 FIB/CC	0.5	/	/	/	* 3.5 FIBERS UNKNOWN
M-08-90 12-8-78	LIVE 3A POLYTHYM PACKAGING AREA	69 MINUTES	5.0	1.0	NONE DETECTED	/	/	/	/	* 4 FIBERS UNKNOWN
M-08-91 12-8-78	LIVE 2A TRIMMED PACKAGING AREA	206 MINUTES	15.0	2.0	NONE DETECTED	/	/	/	/	* 13 FIBERS UNKNOWN
M-08-92 12-8-78	LIVE 2A TRIMMED PACKAGING AREA	225 MINUTES	11.0	3.0	0.0082 FIB/CC	/	/	/	/	* 8 FIBERS UNKNOWN

ASBESTOS SURVEY INSTRUCTIONS

SAMPLE ID. (DATE)	EMPLOYEE MONITORED	OPERATION (DEPARTMENT)	SAMPLE TIME IN MINUTES	TOTAL FIBERS	ASBESTOS FIBERS (SUSPECTED)	FIBERGLASS FIBERS	MINERAL FIBERS	PLANT FIBERS	ASBESTOS FIBERS CONFIRMED	COMMENTS
M-08-93 12-8-78	LIVE 3 Doematic CONTACT PACKAGING AREA	178 MINUTES	11.5	1.0	NONE DETECTED DL = 0.0038 FIB/CC	/	/	/	* 10.5 FIB/CC UNKOWN	
M-08-94 12-8-78	LIVE 3 Doematic CONTACT PACKAGING AREA	212 MINUTES	11.5	1.0	NONE DETECTED DL = 0.0030 FIB/CC	/	/	/	* 10.5 FIB/CC UNKOWN	
M-08-95 12-8-78	DUMPING REBICU + SWEEPING	15 MINUTES	NONE	/	/	NONE DETECTED DL = 0.01 FIB/CC	/	/	0	
M-08-96 12-8-78	DUMPING REBICU + SWEEPING	15 MINUTES	10.5	1.0	NONE DETECTED DL = 0.011 FIB/CC	/	/	/	0	
M-08-97 12-8-78	DUMPING REBICU + SWEEPING	15 MINUTES	5.0	0.5	NONE DETECTED DL = 0.027 FIB/CC	/	/	/	0	
M-08-98 12-8-78	DUMPING REBICU + SWEEPING	61 MINUTES	1.0	/	NONE DETECTED DL = 0.027 FIB/CC	/	/	/	0	
M-08-99 12-8-78	LINE 2A TRIONIZED PACKAGING AREA	232 MINUTES	1.0	1.0	NONE DETECTED DL = 0.0030 FIB/CC	/	/	/	0	
M-08-100 12-8-78	LINE 2A TRIONIZED PACKAGING AREA	190 MINUTES	NONE	/	NONE DETECTED DL = 0.0085 FIB/CC	/	/	/	0	
M-08-101 12-8-78	LINE 2C CONTAC PACKAGING AREA	209 MINUTES	/	/	NOT ANALYZED	/	/	/	0	
M-08-102 12-8-78	LINE 2C CONTAC PACKAGING AREA	189 MINUTES	0.5	0.5	NONE DETECTED DL = 0.0048 FIB/CC	/	/	/	0	
M-08-103 12-8-78	Doematic 3 CONTAC PACKAGING AREA	201 minutes	2.0	2.0	NONE DETECTED DL = 0.0084 FIB/CC	/	/	/	0	
M-08-104 12-8-78	Doematic CONTAC PACKAGING AREA	170 minutes	NONE	/	NONE DETECTED DL = 0.0088 FIB/CC	/	/	/	0	
M-08-105 12-8-78			/	/					BLANK	

SAMPLE ID. (DATE)	EMPLOYEE MONITORED	OPERATION (DEPARTMENT)	SAMPLE TIME IN MINUTES	TOTAL FIBERS	ASBESTOS FIBERS (SUSPECTED)	ASBESTOS FIBERS/CC (SUSPECTED)	FIBERGLASS FIBERS	MICRO FIBERS	PLANT FIBERS	ASBESTOS FIBERS CONFIRMED	COMMENTS
B-G-39 12-7-78	AREA SAMPLE	CONTROL ROOM PAINTED	275 MINUTES	1.5	0.5	NONE DETECTED D.L.= 0.0061 FIB/CC	/	/	/	/	* 1.0 PIGMENT DET
B-G-40 12-7-78	AREA SAMPLE	CONTROL ROOM	53 MINUTES	NONE	/	NONE DETECTED D.L.= 0.031 FIB/CC	/	/	/	/	0
C-C8-19 12-8-78	AREA SAMPLE	RECEIVING AREA (CARBURETOR WORK AREA)	445 MINUTES	1.5	/	NONE DETECTED D.L.= 0.0037 FIB/CC	/	/	/	/	* 1.5 FIBERS/BLANK
C-C8-18 12-8-78	AREA SAMPLE	MOBILE WAREHOUSE DRIVING BOTTLED STATION	443 MINUTES	2.0	2.0	NONE DETECTED D.L.= 0.0038 FIB/CC	/	/	/	/	
C-C8-20 12-8-78	BLANK	BUNK	/	/	/	NONE DETECTED D.L.= 0.005 FIB/CC	/	/	/	/	
C-C8-21 12-8-78	BLANK	BUNK	/	/	/	NONE DETECTED D.L.= 0.005 FIB/CC	/	/	/	/	
M-13-106 12-13-78	AREA SAMPLE	ON C.P. & GROUT PAINTING POLYURETHANE TEAK AREA	330 MINUTES	/	/	ON M-13-106, 7.8 FIB/CC LAB DID NOT REQUEST TOTAL FIBER COUNT, ONLY THAT NO ASBESTOS WAS DETECTED	/	/	/	/	
M-13-107 12-13-78	AREA SAMPLE	ON C.P. & GROUT PAINTING POLYURETHANE TEAK AREA	90 MINUTES	/	/	NONE DETECTED D.L.= 0.018 FIB/CC	/	/	/	/	
M-13-108 12-13-78	BLANK	BLANK	/	/	/		/	/	/	/	

SAMPLE ID. (DATE)	EMPLOYEE MONITORED	OPERATION (DEPARTMENT)	SAMPLE TIME IN MINUTES	SILICA (QUARTZ)	CRYSTOBALITE	ASBESTOS FIBERS (SUSPECTED)	FIBERGLASS FIBERS	MINERAL FIBERS	PLANT FIBERS	ASBESTOS FLAKES CONFIRMED	COMMENTS
M-6635-B-1 11/30/78	BULK SAMPLE	UNEXPANDED VERMICULITE FACTORY/Plants	N/A	< 1/10	NONE DETECTED	ASBESTOS + N.P.	/	/	/	/	TRALFIR CLOTHING AND MADE ON THE C BULK SAMPLES
M-6635-B-2 11/30/78	BULK SAMPLE	EXPANDED VERMICULITE From LIGGY/Norman	N/A	< 1/10	NONE DETECTED	ASBESTOS + N.P.	/	/	/	/	
M-6635-B-3 11/30/78	BULK SAMPLE	UNEXPANDED VERMICULITE From South Africa	N/A	< 1/10	NONE DETECTED	ASBESTOS + N.P.	/	/	/	/	PAGE 0 0
M-6635-B-4 11/30/78	BULK SAMPLE	EXPANDED VERMICULITE From South Africa	N/A	< 1/10	NONE DETECTED	ASBESTOS + N.P.	/	/	/	/	0 -
B-6-30 12-6-78	BULK SAMPLE	BULK OF LIQUID VERMICULITE From RAIL CAR	N/A	/	NONE DETECTED	ASBESTOS FIBERS (SUSPECTED)	/	/	/	/	* 1% ASBESTOS NOT IDENTIFIED BY LAB
DATE + SAMPLE ID	EMPLOYEE MONITORED	OPERATION (DEPARTMENT)	SAMPLE TIME	OTHER FIBERS	CRYSTOBALITE	ASBESTOS FIBERS (SUSPECTED)	FIBERGLASS FIBERS	MINERAL FIBERS	PLANT FIBERS	ASBESTOS FLAKES CONFIRMED	COMMENTS
M-14-851 12-14-78	BULK SAMPLE	BULK INDO SYSTEM 2, CROWN WHITE CEMENT	N/A	NONE DETECTED	NONE DETECTED	/	/	/	/	/	
M-14-852 12-14-78	BULK SAMPLE	BULK INDO SYSTEM 3 white CROWN CEMENT	N/A	NONE DETECTED	NONE DETECTED	/	/	/	/	/	
M-14-853 12-14-78	BULK SAMPLE	BULK INDO SYSTEM 4 CROWN CEMENT	N/A	NONE DETECTED	NONE DETECTED	/	/	/	/	/	
M-14-854 12-5-78	BULK SAMPLE	BULK INDO SYSTEM 5 CROWN CEMENT	N/A	NONE DETECTED	NONE DETECTED	/	/	/	/	/	
M-14-855 12-5-78	BULK SAMPLE	BULK INDO SYSTEM 6 CROWN CEMENT	N/A	NONE DETECTED	NONE DETECTED	/	/	/	/	/	
M-14-856 12-5-78	BULK SAMPLE	BULK INDO SYSTEM 7 CROWN CEMENT	N/A	NONE DETECTED	NONE DETECTED	/	/	/	/	/	OTHER FLAKES NOT IDENTIFIED
M-14-857 12-6-78	BULK SAMPLE	UNEXPANDED VERMICULITE CROWN CEMENT	N/A	L/10 NON- ASBESTOS FIBERS	L/10 NON- ASBESTOS FIBERS	/	/	/	/	/	
M-14-858 12-6-78	BULK SAMPLE	UNEXPANDED VERMICULITE CROWN CEMENT	N/A	SEE PIGMENT	SEE PIGMENT	/	/	/	/	/	
M-14-859 12-6-78	BULK SAMPLE	UNEXPANDED VERMICULITE CROWN CEMENT	N/A	SEE PIGMENT	SEE PIGMENT	/	/	/	/	/	85% plant fibers

SAMPLE ID. (DATE)	EMPLOYEE MONITORED	OPERATION (DEPARTMENT)	SAMPLING TIME IN MINUTES	SILICA (QUARTS)	CRYSTOBALITE FIBERS (SUSPECTED)	ASBESTOS FIBERS (SUSPECTED)	PLANT FIBERS	MINERAL FIBERS	ASBESTOS FIBERS CONFIRMED	COMMENTS
M-665-B-1 1/13/78	BULK SAMPLE	UNGEXPANDED VERMICULITE FACTORY PLANT	N/A	< 1/10	NONE DETECTED	ASBESTOS + N/A, D.L. = 1/10	/	/	/	TOTAL FIBER COUNTS AND MADE ON THESE BULK SAMPLES
M-665-B-2 1/30/78	BULK SAMPLE	EXPANDED VERMICULITE FROM U.S.A./MONTANA	N/A	< 1/10	NONE DETECTED	NONE DETECTED	/	/	/	BASE 0 —
M-665-B-3 1/30/78	BULK SAMPLE	UNEXPANDED VERMICULITE From South Africa	N/A	< 1/10	NONE DETECTED	NONE DETECTED	/	/	/	BASE 0 —
M-665-B-4 1/30/78	BULK SAMPLE	EXPANDED VERMICULITE From South Africa	N/A	< 1/10	NONE DETECTED	NONE DETECTED	/	/	/	* 1/10 ASBESTOS NOT IDENTIFIED BY LAB
B-6-30 12-6-78	BULK SAMPLE	BULK OF LIQUID VERMICULITE FROM RAIL CAR	N/A	< 1/10	NONE DETECTED	D.L. = 1/10	/	/	/	—
DATE + EMPLOYEE MONITORED SAMPLE ID	OPERATION DEPARTMENT	SAMPLE TIME	OTHER FIBERS	CRYSTOBALITE (SUSPECTED)	ASBESTOS FIBERS (SUSPECTED)	PLANT FIBERS	MINERAL FIBERS	ASBESTOS FIBERS CONFIRMED	COMMENTS	COMMENTS
						NONE DETECTED	/	/		
M-14-B51 12-14-78	BULK SAMPLE	BULK SYSTEM 2, WITH CUSTOMER WIRE	N/A	NONE DETECTED	/	NONE DETECTED	/	/	/	—
M-14-B52 12-14-78	BULK SAMPLE	BULK FROM SYSTEM 2 CYCLONE 3 WHILE SYSTEM IS TURNED ON	N/A	NONE DETECTED	/	NONE DETECTED	/	/	/	—
M-14-B53 12-14-78	BULK SAMPLE	BULK FROM CYCLONE 3 WHILE SYSTEM IS TURNED ON	N/A	NONE DETECTED	/	NONE DETECTED	/	/	/	—
M-05-C-1 12-5-78	BULK SAMPLE	BULK FROM CYCLONE 3 WHILE SYSTEM IS TURNED ON	N/A	NONE DETECTED	/	NONE DETECTED	/	/	/	—
M-05-D-2 12-5-78	BULK SAMPLE	BULK OF WET GROUT CONTAINING ASBESTOS	N/A	< 1/10 NONE ASBESTOS FIBERS	/	NONE DETECTED	/	/	/	OTHER FIBERS NOT IDENTIFIED
M-06-E-01 12-6-78	BULK SAMPLE	UNEXPANDED VERMICULITE FROM SOUTH AFRICA	N/A	SEE REPORTS	/	NONE DETECTED	/	/	/	—
M-06-D-12 12-6-78	BULK SAMPLE	3/4" X 1/4" X 1/4" SINTERED ASBESTOS	N/A	SEE REPORTS	/	NONE DETECTED	/	/	/	85% PLANT FIBERS

SAMPLE A-16475

Thirteen fibers were analyzed with the electron microscope. Of those, five were varieties in the tremolite - actinolite series as determined by selected area diffraction, morphology and elemental composition by x-ray dispersive analysis. Four more fibers lacking good x-ray dispersive data appear to be in the tremolite - actinolite series. Three fibers are members of the vermiculite group. One fiber was not analyzed due to poor positioning on the grid. (Fiber no. 2). The results are as follows: (Some fibers show shrinkage from vacuum and beam effects).

	<u>c</u>	<u>a</u>	Angle	Indexed/Pole	Comment
1	5.27	17.94	108°	N	Tremolite-actinolite
3	5.27	17.95	110°	N	Tremolite-actinolite EDX not reliable
4	5.13	(^{nat} 3.39)	101°	$\bar{Y} < \bar{5}10 >$	Tremolite-actinolite to Richterite due to (K,Na) $\geq Ca$
5	5.11	17.14	—	N	Tremolite-actinolite probably, (no EDX)
6	4.71	hexagonal pattern at one position but triclinic,			vermiculite
7	4.70	23.89		N	Vermiculite
8		Insufficient pattern for full analysis but appears as tremolite-actinolite			
9	4.08	20.18		N	Vermiculite
10	5.27	8.93	110°	N	Tremolite-actinolite -no ED
11	5.23	9.06	—	N	Tremolite-actinolite -no ED
12	—	—	100°	$\bar{Y} < \bar{0}14 >$	Tremolite
13	5.26	17.66	98.5°	N	Tremolite-actinolite to Richterite

ITEM/TEST SAMPLE	LOCATION	TEST TIME	TEST DATE	TESTER
TOTAL DUST AREA SAMPLE	#2 SYSTEM 4th FLOOR TRIONIZE - MILL 2-3	423 MINUTES	1.86 mg/m ³	1.66 mg/m ³
RESPIRABLE DUST AREA SAMPLE	#2 SYSTEM 4th FLOOR TRIONIZE - MILL 2-3	424 MINUTES	1.23 mg/m ³	1.09 mg/m ³
AREA SAMPLE RESPIRABLE DUST	TRIONIZE DRYER #2 (PADDLE MIXER)	420 MINUTES	0.613 mg/m ³	0.536 mg/m ³
AREA SAMPLE TOTAL DUST	TRIONIZE DRYER #2 (PADDLE MIXER)	420 MINUTES	4.08 mg/m ³	3.57 mg/m ³
	TRIONIZE OPERATOR-DRYER #2 (PADDLE MIXER)	409 MINUTES	4.35 mg/m ³	3.71 mg/m ³
TOTAL DUST	TRIONIZE CLEANING OUT #2 DRYER	381 MINUTES	6.36 mg/m ³	5.05 mg/m ³
RESPIRABLE DUST	TRIONIZE CLEANING OUT #2 DRYER	381 MINUTES	1.77 mg/m ³	1.40 mg/m ³
LINE 1A - PACKAGING	LINE 1A TRIONIZE PACKAGING AREA	404 MINUTES	1.08 mg/m ³	0.905 mg/m ³
RESPIRABLE LINE 2C DUST	LINE 2C CONTROL PACKAGING AREA	409 MINUTES	3.05 mg/m ³	2.60 mg/m ³
TOTAL DUST LINE 2C	LINE 2C CONTROL PACKAGING AREA	411 MINUTES	3.87 mg/m ³	3.31 mg/m ³
TOTAL DUST LINE 3A	LINE 3A POLYFORM PACKAGING AREA	409 MINUTES	2.41 mg/m ³	2.05 mg/m ³
RESPIRABLE DUST LINE 3A	LINE 3A POLYFORM PACKAGING AREA	409 MINUTES	4.54 mg/m ³	3.87 mg/m ³
HIGH DENSITY O.P.	POLYFORM OPERATOR OF HIGH DENSITY	365 min	5.35 mg/m ³	4.07 mg/m ³
High Density O.P.	POLYFORM OPERATOR OF HIGH DENSITY	372 min	5.54 mg/m ³	4.29 mg/m ³

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O.M. SCOTT COMPANY
Results of Pesticide Sampling

Name, Location	Date	Pesticide	Exposure Level	PEL
1. [REDACTED] Examination of Nuisance Dust Overexposure	12-15-78	Diazinon 2,4-D Thiram	N.D. N.D.	100 mg/m ³ ACGIH 10 mg/m ³ 5 mg/m ³
2. [REDACTED] Examination of Nuisance Dust Overexposure	12-14-78	Diazinon 2,4-D Thiram	N.D. N.D. N.D.	100 mg/m ³ ACGIH 10 mg/m ³ 5 mg/m ³
3. [REDACTED] Examination of Nuisance Dust Overexposure	12-14-78	Diazinon 2,4-D Thiram	N.D. N.D. N.D.	100 mg/m ³ ACGIH 10 mg/m ³ 5 mg/m ³
4. [REDACTED] Cleaning Elevator	12-14-78	Thiram	4.3 mg 20 min	5 mg/m ³
5. [REDACTED] Mixer, Control Area	12-7-78	2,4-D	(.5 mg/m ³ 392 min	10 mg/m ³
6. [REDACTED] Control Area	12-14-78	Diazinon	N.D. 312 min	100 mg/m ³ ACGIH
7. [REDACTED] Control Area	12-13-78	Diazinon	N.D. 392 min	100 mg/m ³ ACGIH
8. John Rister Control Area	12-14-78	Diazinon	.02 mg/m ³ 307 min	100 mg/m ³ ACGIH
9. [REDACTED] Control Area	12-7-78	Dicamba	16 mg/m ³ 362 min	NIOSH Group III
10. Wipe Samples Control Area Gloves (Inside)	12-7-78	Dicamba	N.D.	NIOSH Group III
11. Wipe Sample Control Area Fountain	12-7-78	Dicamba	11 mg or less	NIOSH Group III
12. [REDACTED] Control Area	12-13-78	Betasan	N.D. 397 min	-
13. [REDACTED] Control Area	12-13-78	Betasan	3 mg/m ³ 368 min	-

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Name, Location	Date	Pesticide	Exposure Level	PEL
14. [REDACTED] Mill and Screens E. Blender	12-13-78	Betasan	3 mg/m ³	
15. [REDACTED] Control Area	12-15-78	Demosan	0.8 mg/m ³ 432 min	Group III
16. [REDACTED] Rebag - Control Area	12-15-78	Demosan	1.6 mg/m ³ 411 min Bulk 5% by wt.	Group III
17. [REDACTED] Packaging	12-15-78	Demosan	N.D. 343 min	Group III
18. [REDACTED]	12-15-78	Demosan	N.D. 349 min	Group III

COMPANY NAME O.M. SCOTT & SONS

SURVEY DATE 12/78

INSPECTION NUMBER C6635-W180

SAMPLE LOCATION	SAMPLING METHOD	AIR CONTAMINANT	TIME WEIGHTED AVERAGE STANDARD OSHA STANDARD	EMPLOYEE EXPOSURE LEVEL	STANDARD EXCEEDED
REACTOR ROOM Aneal Sample	AA FILTER 2 LPM	SULFURIC ACID	1 MG/M ³	AREA SAMPLE 403 MINUTES 0.42 MG/M ³ Employee exposure would be exceeded.	NO
POLYFORM PLANT Aneal Sample	AA FILTER 2 LPM	SULFURIC ACID	1 MG/M ³	42.2 MINUTES Area Sample 0.34 MG/M ³ Employee exposure would be exceeded.	NO
PADDLE MIXER Station	IMPINGER 1 LPM	FORMALDEHYDE	3 PPBM 3.7 MG/M ³	30.9 MINUTES Area Sample 0.176 MG/M ³	NO
TRIONIZED PLANT TREN Sample Resin Room	IMPINGER 1 LPM Methanol	AMMONIA	35 MG/M ³	2.7 MINUTES 35 MG/M ³ → this represents the quantity that would be detected by the monitor at the maximum.	NO
Process Operator Polyform Plant while on bridge of diga #1	IMPINGER 1 LPM NH ₃ SO ₄	DIAZINON	None	None detected	NO
Bulk Sample prior to digon 2, prior to sample being grated	BULK- GRAB Sample			Dr. L = 0.09%	

AIR SAMPLING DATA SUMMARY

COMPANY NAME O. M. Scott & SonsSURVEY DATE 12/14/78INSPECTION NUMBER C 6635 # 180PAB 00-21

SAMPLE LOCATION	SAMPLING METHOD	AIR CONTAMINANT SAMPLED FOR	OSHA STANDARD	TIME WEIGHTED AVERAGE	EMPLOYEE EXPOSURE LEVEL	STANDARD EXCEEDED
BULK FROM SYSTEM # 2 Glycome 3 in hole being cleaned	Bulk Sample	Diazinon	NONE	NONE DETECTED D.L. = 0.0670	N.O.	
BULK FROM MATERIAL cleaned OUT OF Dryer # 2 + Swallow + the front grate at the Front end of Dryer # 2	Bulk Sample	Diazinon	NONE	NONE DETECTED D.L. = 0.0770	N.O.	